

NOTE: This product is no longer in production. For service and repair, please contact Akron's Customer Service at 800.228.1161 or 330.264.5678.

STYLE 950 PYROCOOL® FEF FOAM

MATERIAL SAFETY DATA SHEET

SECTION I GENERAL

Product Identity: Pyrocool FEF
Product Application: Fire Fighting Foam Concentrate at 0.4%

Manufacturer:
Baum's Castorine Co, Inc.
200 Matthew Street
Rome, N.Y. 13440 U.S.A.
800-825-8154

Exclusive Supplier:
Pyrocool Technologies, Inc.
3540 South Amherst Highway
PO Box 160
Monroe, VA 24574 U.S.A.
800-289-7976

HAZARD RATINGS

| | |
|---------------------|---|
| Health | 1 |
| Flammability | 0 |
| Reactivity | 0 |
| Personal Protection | A |

SECTION II

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components: (chemical identity; common names)

OSHA PEL

ACGIH TLV

Other Limits Recommended

% Optional

The product contains no hazardous components as defined by the Occupational Safety and Health Administration's Hazard Communication Standard 29CFR 1910.1000 and 29CFR 1910.1200

Reportable Quantity (RQ)

EPA Regulation 40CFR 302.9 CERCLA Section 102:

No RQ for this product

Threshold Planning Quantity (TPQ)

EPA Regulation 40CFR 355 (SARA Sections 301-304):

No TPQ for this product

Toxic Chemical Release Reporting

EPA Regulation CFR 372 (SARA Section 313):

NONE

Hazard Chemical Reporting

EPA Regulation 40 CFR 370 (SARA Section 311-312):

Not Applicable

SECTION III

PRODUCT DESCRIPTION / COMPOSITION

Pyrocool FEF is a blend of organic surfactants being anionic, nonionic and amphoteric surfactants.

SECTION IV

PHYSICAL AND CHEMICAL CHARACTERISTICS

| | |
|----------------------------------|---------------|
| Boiling point: | 212°F, 100°C |
| Freezing point: | 30°F, -1°C |
| pH range: | 6.75 - 7.80 |
| Typical pH: | 7.10 |
| Specific gravity range: | 1.020 - 1.050 |
| Typical specific gravity: | 1.036 |
| Percent, volatile by volume (%): | Water 62.5 |
| Vapour pressure: | Not available |

| | |
|----------------------------------|---|
| Vapour density: | Not available |
| Evaporation rate: | Equal to water |
| Solubility in water: | Complete |
| Refractive index of concentrate: | 31.0 - 34.0° Brix |
| Biodegradability: | Fully |
| Toxicity: | Non-toxic in use solution when applied in accordance with accepted fire fighting procedure. |
| Fluorocarbons: | None |
| Shelf life: | 10 years |
| Appearance & odor: | Light yellow liquid, faintly aromatic |

SECTION V REACTIVITY DATA

| | |
|---------------------------------------|----------------------------|
| Stability: | Stable |
| Incompatibility (materials to avoid): | Strong oxidizers and acids |
| Hazardous polymerization: | Will not occur |
| Conditions to avoid: | None known |

SECTION VI HAZARD DATA

Fire and Explosion Hazard

| | |
|-------------------------------------|----------------|
| Flash Point (method used): | None |
| Flammable Limits: | Not Applicable |
| Extinguishing Media: | Not Applicable |
| Special Fire Fighting Procedures: | Not Applicable |
| Unusual Fire and Explosion Hazards: | None |

Health Hazards (Acute and Chronic)

| | |
|------------------------------------|--|
| Inhalation Toxicity: | Rat (M)-Exposure 8 hrs. to concentrated vapor, ambient temperature: |
| No mortality. | |
| Skin Irritation: | Repeat Insult Patch Test - Human (M&F): No irritation, no sensitization. |
| Eye Irritation: | Rabbit: Severe irritation with and without washout. |
| Sensitizer: | No |
| Dot Corrosive: | No |
| Ingestion: | No effects of exposure when product is used at normal dilution of 2 |
| parts Pyrocool to 500 parts water. | |

Carcinogenicity

| | |
|---------------------------------|--|
| NTP: | No |
| IARC Monographs: | No |
| OSHA Regulated: | No |
| Signs and Symptoms of Exposure: | Redness and irritation to eyes if washout precautions are not taken. |

Medical Conditions

| | |
|-----------------------------------|------------|
| Generally aggravated by Exposure. | None known |
|-----------------------------------|------------|

Emergency First Aid Procedures

| | |
|-------------------|---|
| Inhalation: | Remove to fresh air. |
| Skin: | For all foreign materials, wash after exposure. |
| Eyes: | Immediately flush eyes with plenty of water for at least 15 minutes. |
| Call a physician. | |
| Ingestion: | Give patient plenty of water, two (2) glasses. Call a physician or poison control center. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician. |

SECTION VII
PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled

Absorb with earth, sand or similar inert material and dispose of with solid wastes according to Federal, State and Local regulations. Flush spill area with water. Product is biodegradable and non-hazardous.

Waste Disposal

Dispose of with liquid waste according to Federal, State and Local regulations.

Precautions to be taken in handling and storing

| | |
|---|---------------|
| Transportation Data Domestic - DOT Shipping Name: | Not regulated |
| DOT Hazard Class - Hazardous Ingredients: | None |
| UN Number: | None |

Other Precautions

| | |
|--|---------------|
| Transportation Data Export - Export Shipping Name: | Not Regulated |
| Export Hazard Class - Hazardous Ingredients: | None |
| UN Number: | None |

SECTION VIII
CONTROL MEASURES

| | |
|---|---|
| Respiratory Protection (Specify Type): | Not Required |
| Ventilation Local Exhausts: | Not Required |
| Mechanical (general): | Not Required |
| Protective Gloves: | Not required |
| Eye Protection: | Chemical goggles |
| Other Protective Clothing or Equipment: | Not Required. |
| Work/Hygienic Practices: | For all foreign materials, wash after exposure. |

SECTION IX
TOXICOLOGICAL INFORMATION

Aquatic Toxicity

| | |
|---------------------|--------------|
| | <u>LC50</u> |
| Concentrate (100%) | = 50 mg/l |
| Use solution (0.4%) | = 12500 mg/l |

Mammalian Toxicity

LC50 > 50 gr/kg (for more information see our Technical Data Guide)

Chemical Oxygen Demand (COD)

Chemical Oxygen Demand = 2740 mg/l

Biochemical Oxygen Demand (BOD)

% of total product biodegradation

| | | |
|------------|-----------|--------|
| at 5 days | 1188 mg/l | 43.36% |
| at 10 days | 2042 mg/l | 74.53% |
| at 20 days | 2628 mg/l | 95.91% |

(for more information see our Technical Guide)

Corrosivity

Material

Elapsed time immersion in concentrate without biodegradability

Extrapolated total yearly loss in MPY

Aluminum 2024-T3

744 hours (>31 days)

0.54 (0.00762 mmpy)

Steel AISI-4130

744 hours (>31 days)

1.18 (0.02997 mmpy)

Yellow Brass 65CU-35ZN 744 hours (>31 days)

0.87 (0.02209 mmpy)

(for more information see our Technical Guide)



ISO 9001 REGISTERED COMPANY

PHONE: 330.264.5678 or 800.228.1161 | FAX: 330.264.2944 or 800.531.7335 | akronbrass.com

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